RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/539,443
Source: IFW P
Date Processed by STIC: 08/07/2006

ENTERED

IFWP

RAW SEQUENCE LISTING DATE: 08/07/2006
PATENT APPLICATION: **US/10/539,443** TIME: 09:43:36

Input Set : **A:\SequenceListing.ST25.txt**
Output Set: **N:\CRF4\08072006\J539443.raw**

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     3 <110> APPLICANT: Aarhus University
     5 <120> TITLE OF INVENTION: Modulation of activity of neurotrophins
     7 <130> FILE REFERENCE: P700PC00
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/539,443
C--> 9 <141> CURRENT FILING DATE: 2005-06-20
     9 <160> NUMBER OF SEQ ID NOS: 13
    11 <170> SOFTWARE: PatentIn version 3.1
    13 <210> SEQ ID NO: 1
    14 <211> LENGTH: 831
    15 <212> TYPE: PRT
    16 <213> ORGANISM: Homo sapiens
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    25             20                  25                  30
    28 Ser Gln Asp Arg Leu Asp Ala Pro Pro Pro Pro Ala Ala Pro Leu Pro
    29         35                  40                  45
    32 Arg Trp Ser Gly Pro Ile Gly Val Ser Trp Gly Leu Arg Ala Ala Ala
    33     50                  55                  60
    36 Ala Gly Gly Ala Phe Pro Arg Gly Gly Arg Trp Arg Arg Ser Ala Pro
    37 65                  70                  75                  80
    40 Gly Glu Asp Glu Glu Cys Gly Arg Val Arg Asp Phe Val Ala Lys Leu
    41                 85                  90                  95
    44 Ala Asn Asn Thr His Gln His Val Phe Asp Asp Leu Arg Gly Ser Val
    45             100                 105                 110
    48 Ser Leu Ser Trp Val Gly Asp Ser Thr Gly Val Ile Leu Val Leu Thr
    49         115                 120                 125
    52 Thr Phe His Val Pro Leu Val Ile Met Thr Phe Gly Gln Ser Lys Leu
    53     130                 135                 140
    56 Tyr Arg Ser Glu Asp Tyr Gly Lys Asn Phe Lys Asp Ile Thr Asp Leu
    57 145                 150                 155                 160
    60 Ile Asn Asn Thr Phe Ile Arg Thr Glu Phe Gly Met Ala Ile Gly Pro
    61                 165                 170                 175
    64 Glu Asn Ser Gly Lys Val Val Leu Thr Ala Glu Val Ser Gly Gly Ser
    65             180                 185                 190
    68 Arg Gly Gly Arg Ile Phe Arg Ser Ser Asp Phe Ala Lys Asn Phe Val
    69         195                 200                 205
    72 Gln Thr Asp Leu Pro Phe His Pro Leu Thr Gln Met Met Tyr Ser Pro
    73     210                 215                 220
    76 Gln Asn Ser Asp Tyr Leu Leu Ala Leu Ser Thr Glu Asn Gly Leu Trp
    77 225                 230                 235                 240
    80 Val Ser Lys Asn Phe Gly Gly Lys Trp Glu Glu Ile His Lys Ala Val
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84 Cys Leu Ala Lys Trp Gly Ser Asp Asn Thr Ile Phe Phe Thr Thr Tyr
85             260                 265                 270
88 Ala Asn Gly Ser Cys Lys Ala Asp Leu Gly Ala Leu Glu Leu Trp Arg
89         275                 280                 285
92 Thr Ser Asp Leu Gly Lys Ser Phe Lys Thr Ile Gly Val Lys Ile Tyr
93     290                 295                 300
96 Ser Phe Gly Leu Gly Gly Arg Phe Leu Phe Ala Ser Val Met Ala Asp
97 305                 310                 315                 320
100 Lys Asp Thr Thr Arg Arg Ile His Val Ser Thr Asp Gln Gly Asp Thr
101                 325                 330                 335
104 Trp Ser Met Ala Gln Leu Pro Ser Val Gly Gln Glu Gln Phe Tyr Ser
105             340                 345                 350
108 Ile Leu Ala Ala Asn Asp Asp Met Val Phe Met His Val Asp Glu Pro
109         355                 360                 365
112 Gly Asp Thr Gly Phe Gly Thr Ile Phe Thr Ser Asp Asp Arg Gly Ile
113     370                 375                 380
116 Val Tyr Ser Lys Ser Leu Asp Arg His Leu Tyr Thr Thr Thr Gly Gly
117 385                 390                 395                 400
120 Glu Thr Asp Phe Thr Asn Val Thr Ser Leu Arg Gly Val Tyr Ile Thr
121                 405                 410                 415
124 Ser Val Leu Ser Glu Asp Asn Ser Ile Gln Thr Met Ile Thr Phe Asp
125             420                 425                 430
128 Gln Gly Gly Arg Trp Thr His Leu Arg Lys Pro Glu Asn Ser Glu Cys
129         435                 440                 445
132 Asp Ala Thr Ala Lys Asn Lys Asn Glu Cys Ser Leu His Ile His Ala
133     450                 455                 460
136 Ser Tyr Ser Ile Ser Gln Lys Leu Asn Val Pro Met Ala Pro Leu Ser
137 465                 470                 475                 480
140 Glu Pro Asn Ala Val Gly Ile Val Ile Ala His Gly Ser Val Gly Asp
141                 485                 490                 495
144 Ala Ile Ser Val Met Val Pro Asp Val Tyr Ile Ser Asp Asp Gly Gly
145             500                 505                 510
148 Tyr Ser Trp Thr Lys Met Leu Glu Gly Pro His Tyr Tyr Thr Ile Leu
149         515                 520                 525
152 Asp Ser Gly Gly Ile Ile Val Ala Ile Glu His Ser Ser Arg Pro Ile
153     530                 535                 540
156 Asn Val Ile Lys Phe Ser Thr Asp Glu Gly Gln Cys Trp Gln Thr Tyr
157 545                 550                 555                 560
160 Thr Phe Thr Arg Asp Pro Ile Tyr Phe Thr Gly Leu Ala Ser Glu Pro
161                 565                 570                 575
164 Gly Ala Arg Ser Met Asn Ile Ser Ile Trp Gly Phe Thr Glu Ser Phe
165             580                 585                 590
168 Leu Thr Ser Gln Trp Val Ser Tyr Thr Ile Asp Phe Lys Asp Ile Leu
169         595                 600                 605
172 Glu Arg Asn Cys Glu Glu Lys Asp Tyr Thr Ile Trp Leu Ala His Ser
173     610                 615                 620
176 Thr Asp Pro Glu Asp Tyr Glu Asp Gly Cys Ile Leu Gly Tyr Lys Glu
177 625                 630                 635                 640
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180 Gln Phe Leu Arg Leu Arg Lys Ser Ser Met Cys Gln Asn Gly Arg Asp
181                 645                 650                 655
184 Tyr Val Val Thr Lys Gln Pro Ser Ile Cys Leu Cys Ser Leu Glu Asp
185             660                 665                 670
188 Phe Leu Cys Asp Phe Gly Tyr Tyr Arg Pro Glu Asn Asp Ser Lys Cys
189         675                 680                 685
192 Val Glu Gln Pro Glu Leu Lys Gly His Asp Leu Glu Phe Cys Leu Tyr
193     690                 695                 700
196 Gly Arg Glu Glu His Leu Thr Thr Asn Gly Tyr Arg Lys Ile Pro Gly
197 705                 710                 715                 720
200 Asp Lys Cys Gln Gly Gly Val Asn Pro Val Arg Glu Val Lys Asp Leu
201                 725                 730                 735
204 Lys Lys Lys Cys Thr Ser Asn Phe Leu Ser Pro Glu Lys Gln Asn Ser
205             740                 745                 750
208 Lys Ser Asn Ser Val Pro Ile Ile Leu Ala Ile Val Gly Leu Met Leu
209         755                 760                 765
212 Val Thr Val Val Ala Gly Val Leu Ile Val Lys Lys Tyr Val Cys Gly
213     770                 775                 780
216 Gly Arg Phe Leu Val His Arg Tyr Ser Val Leu Gln Gln His Ala Glu
217 785                 790                 795                 800
220 Ala Asn Gly Val Asp Gly Val Asp Ala Leu Asp Thr Ala Ser His Thr
221                 805                 810                 815
224 Asn Lys Ser Gly Tyr His Asp Asp Ser Asp Glu Asp Leu Leu Glu
225             820                 825                 830
228 <210> SEQ ID NO: 2
229 <211> LENGTH: 2214
230 <212> TYPE: PRT
231 <213> ORGANISM: Homo sapiens
233 <400> SEQUENCE: 2
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236 1               5                   10                  15
239 Thr Leu Val Ala Leu Leu Pro Pro Gly Ala Leu Cys Glu Val Trp Thr
240             20                  25                  30
243 Gln Arg Leu His Gly Gly Ser Ala Pro Leu Pro Gln Asp Arg Gly Phe
244         35                  40                  45
247 Leu Val Val Gln Gly Asp Pro Arg Glu Leu Arg Leu Trp Ala Arg Gly
248     50                  55                  60
251 Asp Ala Arg Gly Ala Ser Arg Ala Asp Glu Lys Pro Leu Arg Arg Lys
252 65                  70                  75                  80
255 Arg Ser Ala Ala Leu Gln Pro Glu Pro Ile Lys Val Tyr Gly Gln Val
256                 85                  90                  95
259 Ser Leu Asn Asp Ser His Asn Gln Met Val Val His Trp Ala Gly Glu
260             100                 105                 110
263 Lys Ser Asn Val Ile Val Ala Leu Ala Arg Asp Ser Leu Ala Leu Ala
264         115                 120                 125
267 Arg Pro Lys Ser Ser Asp Val Tyr Val Ser Tyr Asp Tyr Gly Lys Ser
268     130                 135                 140
271 Phe Lys Lys Ile Ser Asp Lys Leu Asn Phe Gly Leu Gly Asn Arg Ser
272 145                 150                 155                 160
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Input Set : A:\SequenceListing.ST25.txt
Output Set: N:\CRF4\08072006\J539443.raw

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275 Glu Ala Val Ile Ala Gln Phe Tyr His Ser Pro Ala Asp Asn Lys Arg
276                 165                 170                 175
279 Tyr Ile Phe Ala Asp Ala Tyr Ala Gln Tyr Leu Trp Ile Thr Phe Asp
280             180                 185                 190
283 Phe Cys Asn Thr Leu Gln Gly Phe Ser Ile Pro Phe Arg Ala Ala Asp
284         195                 200                 205
287 Leu Leu Leu His Ser Lys Ala Ser Asn Leu Leu Leu Gly Phe Asp Arg
288     210                 215                 220
291 Ser His Pro Asn Lys Gln Leu Trp Lys Ser Asp Asp Phe Gly Gln Thr
292 225                 230                 235                 240
295 Trp Ile Met Ile Gln Glu His Val Lys Ser Phe Ser Trp Gly Ile Asp
296                 245                 250                 255
299 Pro Tyr Asp Lys Pro Asn Thr Ile Tyr Ile Glu Arg His Glu Pro Ser
300             260                 265                 270
303 Gly Tyr Ser Thr Val Phe Arg Ser Thr Asp Phe Phe Gln Ser Arg Glu
304         275                 280                 285
307 Asn Gln Glu Val Ile Leu Glu Glu Val Arg Asp Phe Gln Leu Arg Asp
308     290                 295                 300
311 Lys Tyr Met Phe Ala Thr Lys Val Val His Leu Leu Gly Ser Glu Gln
312 305                 310                 315                 320
315 Gln Ser Ser Val Gln Leu Trp Val Ser Phe Gly Arg Lys Pro Met Arg
316                 325                 330                 335
319 Ala Ala Gln Phe Val Thr Arg His Pro Ile Asn Glu Tyr Tyr Ile Ala
320             340                 345                 350
323 Asp Ala Ser Glu Asp Gln Val Phe Val Cys Val Ser His Ser Asn Asn
324         355                 360                 365
327 Arg Thr Asn Leu Tyr Ile Ser Glu Ala Glu Gly Leu Lys Phe Ser Leu
328     370                 375                 380
331 Ser Leu Glu Asn Val Leu Tyr Tyr Ser Pro Gly Gly Ala Gly Ser Asp
332 385                 390                 395                 400
335 Thr Leu Val Arg Tyr Phe Ala Asn Glu Pro Phe Ala Asp Phe His Arg
336                 405                 410                 415
339 Val Glu Gly Leu Gln Gly Val Tyr Ile Ala Thr Leu Ile Asn Gly Ser
340             420                 425                 430
343 Met Asn Glu Glu Asn Met Arg Ser Val Ile Thr Phe Asp Lys Gly Gly
344         435                 440                 445
347 Thr Trp Glu Phe Leu Gln Ala Pro Ala Phe Thr Gly Tyr Gly Glu Lys
348     450                 455                 460
351 Ile Asn Cys Glu Leu Ser Gln Gly Cys Ser Leu His Leu Ala Gln Arg
352 465                 470                 475                 480
355 Leu Ser Gln Leu Leu Asn Leu Gln Leu Arg Arg Met Pro Ile Leu Ser
356                 485                 490                 495
359 Lys Glu Ser Ala Pro Gly Leu Ile Ile Ala Thr Gly Ser Val Gly Lys
360             500                 505                 510
363 Asn Leu Ala Ser Lys Thr Asn Val Tyr Ile Ser Ser Ser Ala Gly Ala
364         515                 520                 525
367 Arg Trp Arg Glu Ala Leu Pro Gly Pro His Tyr Tyr Thr Trp Gly Asp
368     530                 535                 540
371 His Gly Gly Ile Ile Thr Ala Ile Ala Gln Gly Met Glu Thr Asn Glu
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PATENT APPLICATION: US/10/539,443 TIME: 09:43:36

Input Set : A:\SequenceListing.ST25.txt
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372 545                 550                 555                 560
375 Leu Lys Tyr Ser Thr Asn Glu Gly Glu Thr Trp Lys Thr Phe Ile Phe
376                 565                 570                 575
379 Ser Glu Lys Pro Val Phe Val Tyr Gly Leu Leu Thr Glu Pro Gly Glu
380             580                 585                 590
383 Lys Ser Thr Val Phe Thr Ile Phe Gly Ser Asn Lys Glu Asn Val His
384         595                 600                 605
387 Ser Trp Leu Ile Leu Gln Val Asn Ala Thr Asp Ala Leu Gly Val Pro
388     610                 615                 620
391 Cys Thr Glu Asn Asp Tyr Lys Leu Trp Ser Pro Ser Asp Glu Arg Gly
392 625                 630                 635                 640
395 Asn Glu Cys Leu Leu Gly His Lys Thr Val Phe Lys Arg Arg Thr Pro
396                 645                 650                 655
399 His Ala Thr Cys Phe Asn Gly Glu Asp Phe Asp Arg Pro Val Val Val
400             660                 665                 670
403 Ser Asn Cys Ser Cys Thr Arg Glu Asp Tyr Glu Cys Asp Phe Gly Phe
404         675                 680                 685
407 Lys Met Ser Glu Asp Leu Ser Leu Glu Val Cys Val Pro Asp Pro Glu
408     690                 695                 700
411 Phe Ser Gly Lys Ser Tyr Ser Pro Pro Val Pro Cys Pro Val Gly Ser
412 705                 710                 715                 720
415 Thr Tyr Arg Arg Thr Arg Gly Tyr Arg Lys Ile Ser Gly Asp Thr Cys
416                 725                 730                 735
419 Ser Gly Gly Asp Val Glu Ala Arg Leu Glu Gly Glu Leu Val Pro Cys
420             740                 745                 750
423 Pro Leu Ala Glu Glu Asn Glu Phe Ile Leu Tyr Ala Val Arg Lys Ser
424         755                 760                 765
427 Ile Tyr Arg Tyr Asp Leu Ala Ser Gly Ala Thr Glu Gln Leu Pro Leu
428     770                 775                 780
431 Thr Gly Leu Arg Ala Ala Val Ala Leu Asp Phe Asp Tyr Glu His Asn
432 785                 790                 795                 800
435 Cys Leu Tyr Trp Ser Asp Leu Ala Leu Asp Val Ile Gln Arg Leu Cys
436                 805                 810                 815
439 Leu Asn Gly Ser Thr Gly Gln Glu Val Ile Ile Asn Ser Gly Leu Glu
440             820                 825                 830
443 Thr Val Glu Ala Leu Ala Phe Glu Pro Leu Ser Gln Leu Leu Tyr Trp
444         835                 840                 845
447 Val Asp Ala Gly Phe Lys Lys Ile Glu Val Ala Asn Pro Asp Gly Asp
448     850                 855                 860
451 Phe Arg Leu Thr Ile Val Asn Ser Ser Val Leu Asp Arg Pro Arg Ala
452 865                 870                 875                 880
455 Leu Val Leu Val Pro Gln Glu Gly Val Met Phe Trp Thr Asp Trp Gly
456                 885                 890                 895
459 Asp Leu Lys Pro Gly Ile Tyr Arg Ser Asn Met Asp Gly Ser Ala Ala
460             900                 905                 910
463 Tyr His Leu Val Ser Glu Asp Val Lys Trp Pro Asn Gly Ile Ser Val
464         915                 920                 925
467 Asp Asp Gln Trp Ile Tyr Trp Thr Asp Ala Tyr Leu Glu Cys Ile Glu
468     930                 935                 940
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VERIFICATION SUMMARY DATE: 08/07/2006
PATENT APPLICATION: **US/10/539,443** TIME: 09:43:37

Input Set : **A:\SequenceListing.ST25.txt**
Output Set: **N:\CRF4\08072006\J539443.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date